

Superfund Records Center

SITE: SUTTON BROOK

BREAK: 11.09

OTHER: 18791

Y

0908-4164

Health 2
Flammability 3
Reactivity 0

MATERIAL SAFETY DATA SHEET

PRODUCT CODE: 9734-AA81Y
DATE OF PREP. March 18, 1986

Section I

APPROVED

MANUFACTURER: RAFFI & SWANSON, INC.
100 EAMES STREET
WILMINGTON, MA 01887

MANUFACTURERS' CODE IDENTIFICATION:

9734-AA81Y Yellow Bake Enamel

APR 21 1987

EMERGENCY TELEPHONE NO.: 617-933-4200

PRODUCT CLASS: Solvent Based Coating

**ENVIRONMENTAL
ENGINEERING**

TRADE NAME: None

THIS PRODUCT IS A MIXTURE CONTAINING ONE OR MORE HAZARDOUS INGREDIENTS.

INFORMATION ON THE COMPOSITION OF RAFFI & SWANSON, INC. PRODUCTS IS CONFIDENTIAL PROPRIETARY INFORMATION AND IS PROVIDED SOLELY TO AID IN SAFE HANDLING OF THESE MATERIALS. USE OR DISCLOSURE FOR ANY OTHER PURPOSE IS EXPRESSLY FORBIDDEN.

Section II — HAZARDOUS INGREDIENTS

INGREDIENTS	CAS NUMBER	APPROX. PERCENT BY WEIGHT	TLV		LEL % BY VOL	VAPOR PRESSURE mm of Hg
			PPM	mg/M ³		
Propylene Glycol Methyl Ether (Dowanol PM)	107-98-2	20	100		Not Avail	8
Propylene Glycol Methyl Ether Acetate (Dowanol PM Acetate)	108-65-5	10	None Est.		1.5	3.7
Dipropylene Glycol Methyl Ether (Dowanol DPM)	34590-94-8	5	None Est. (100recomm)		Not Avail.	0.05
Toluol	108-88-3	10	100		1.2	22
n-Butyl Alcohol - Skin	71-36-3	< 5	50		1.4	4.3
iso-Butyl Alcohol	78-83-1	< 5	50		1.7	8
Xylol	1330-20-7	< 5	100		1.0	5.9
Zinc Chromate *C* (dispersed in liquid)	13530-65-9	10 (1.0 as Cr)	Not Applicable-----> 0.05 as Cr<-----Not Applicable			
Formaldehyde *C*	50-00-0	0.06	1		<-----Not Applicable-->	

Section III — PHYSICAL DATA

EVAPORATION RATE: ☐ FASTER ☒ SLOWER, THAN ETHER

VAPOR DENSITY: ☒ HEAVIER ☐ LIGHTER, THAN AIR

BOILING RANGE: 225-298°F PERCENT VOLATILE BY VOL: 65%

WEIGHT PER GAL: 10.0#

Section IV — FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION:

DOT: Flammable Liquid

OSHA: Flammable Liquid - Class IB

FLASH POINT (closed cup): 40°F lowest

LEL: 1.0%

flashing component

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical or foam.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep containers tightly closed. Isolate from heat, sparks and open flame. Do not apply to hot surfaces.
Closed containers may explode when exposed to extreme heat.

SPECIAL FIRE FIGHTING PROCEDURES: Water may be ineffective. Water may be used to cool closed containers. Irritating or toxic gases may be present.
Use self-contained breathing apparatus.

TRW-02778



OCEAN® Network

EMERGENCY PHONE 1-800-OLIN-911

MATERIAL SAFETY DATA

SECTION I - IDENTIFICATION

CHEMICAL NAME & SYNONYMS Yellow brass, cartridge brass		
CHEMICAL FAMILY Copper	FORMULA Mixture	TRADE NAME Alloy 260
DESCRIPTION Metal	CAS NO. Not assigned/mixture	

SECTION II - NORMAL HANDLING PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE Precautions needed for abrasive, melting or other operations generating a dust or fume. Do not get dust or fume in eyes, on skin or on clothing. Do not take internally. Wash thoroughly with soap and water before eating or smoking. Avoid breathing dust or fumes.	
PROTECTIVE EQUIPMENT	VENTILATION REQUIREMENTS
Eyes Goggles Gloves Impervious Other NIOSH/MSHA approved high efficiency particulate respirator if excessive dusting/fumes occur	As required to keep airborne concentrations below TLV for copper and zinc.

SECTION III - HAZARDOUS INGREDIENTS

BASIC MATERIAL	OSHA PEL	LD 50	LC 50	SIGNIFICANT EFFECTS
Copper	Dust 1 mg/m ³ Fume 0.1 mg/m ³	TDLO 120 ug/kg (human)	No data	Metal fume fever, respiratory irritation
Zinc	Fume 5 mg/m ³	No data	TC _{LD} 124 mg/m ³ /50 min. (human)	Metal fume fever

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT METHOD Not Applicable	OSHA CLASSIFICATION Non-combustible solid	FLAMMABLE EXPLOSIVE LIMITS	LOWER N/A	UPPER N/A
EXTINGUISHING MEDIA Use extinguishing media suitable for surrounding materials.				
SPECIAL FIRE HAZARD & FIRE FIGHTING PROCEDURES Use NIOSH/MSHA approved positive pressure self-contained breathing apparatus when any material is involved in a fire.				

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	None established for mixture (copper fume 0.2 mg/m ³ , zinc fume 5 mg/m ³ ACGIH 1985-86).
SYMPTOMS OF OVER EXPOSURE Dust and fume - sneezing, congestion, metallic taste, nausea, chills, fever.	
SKIN	Dust or fume: Wash with soap and water before eating or smoking. If an irritation develops, call a physician.
EYES	Dust or fume: Flush with water for 15 minutes. Call a physician.
INGESTION	Dust: Not a likely route of exposure. If ingested, call a physician.
INHALATION	Dust or Fume: Remove victim to fresh air. Call a physician.

Chemical

Alloy 260

CAS No.

TRW-02779

0908-4166

SECTION VI - TOXICOLOGY (Product)

ACUTE ORAL LD 50	No data for alloy	CARCINOGENICITY	Not known to be carcinogenic
ACUTE DERMAL LD 50	No data for alloy	MUTAGENICITY	Not known to be mutagenic
ACUTE INHALATION LC 50	No data for alloy	EYE IRRITATION	Dust is irritating
		PRIMARY SKIN IRRITATION	Dust may be an irritant
PRINCIPAL ROUTES OF ABSORPTION			
Inhalation of dust or fume			
EFFECTS OF ACUTE EXPOSURE			
Metal fume fever (chills, fever, nausea), respiratory irritation			
EFFECTS OF CHRONIC EXPOSURE			
None expected under normal industrial use conditions. Chronic overexposure may cause kidney and liver effects			

SECTION VII - SPILL AND LEAKAGE PROCEDURES (Control Procedures)

ACTION FOR MATERIAL RELEASE OR SPILL

Dust or Fume: Wear NIOSH/MSHA approved high efficiency particulate respirator. Follow OSHA regulations for respirator use (See 29 CFR 1910.134). Wear goggles, coveralls, impervious gloves and boots. Shovel or sweep up and place in an appropriate container. Wash all contaminated clothing before reuse.

In the event of a large spill, use the emergency telephone number shown on the front of this sheet.

TRANSPORTATION EMERGENCY, CONTACT CHEMTREC 800-424-9300

WASTE DISPOSAL METHOD

Dispose of contaminated product, empty containers and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate federal, state and local regulatory agencies to ascertain proper disposal procedures.

SECTION VIII - SHIPPING DATA

D.O.T. CLASS

Not regulated

SECTION IX - REACTIVITY DATA

STABLE	X UNSTABLE	AT _____ °C _____ °F	HAZARDOUS POLYMERIZATION	MAY OCCUR
				WILL NOT OCCUR X
CONDITIONS TO AVOID Presence of carbon monoxide during melting				
INCOMPATIBILITY (Material to Avoid) (dust and fume) acetylene, chlorine				
HAZARDOUS DECOMPOSITION PRODUCTS copper fume, zinc oxide fume				

SECTION X - PHYSICAL DATA

MELTING POINT	1680°F	VAPOR PRESSURE	N/A	VOLATILES	N/A
BOILING POINT	No data	SOLUBILITY IN WATER	Insoluble	EVAPORATION RATE	N/A
SPECIFIC GRAVITY (H ₂ O = 1) *		pH	N/A	VAPOR DENSITY (Air = 1)	N/A
* DENSITY	.308 lbs/in ³				

INFORMATION FURNISHED BY: Environmental Hygiene
and Toxicology
(203) 789-5436

DATE March 27, 1986

Department of Environmental Hygiene and Toxicology
(203) 789-5436

Olin CORPORATION

120 Long Ridge Road, Stamford, Connecticut 06904

OCEAN® Network

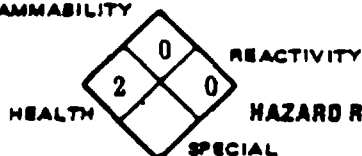
EMERGENCY PHONE 1-800-OLIN-911



EMERGENCY PHONE (203) 356-2345

Olin Corporation, 120 Long Ridge Road
Stamford, Conn. 06904

FLAMMABILITY



REACTIVITY

HAZARD RATING

SPECIAL

MATERIAL SAFETY DATA

SECTION I - IDENTIFICATION

CHEMICAL NAME & SYNONYMS Yellow brass		
CHEMICAL FAMILY Copper	FORMULA	TRADE NAME Alloy 262
DESCRIPTION Metal		CAS NO.

SECTION II - NORMAL HANDLING PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE Avoid breathing dust or fumes. Do not take internally.	
CORROSIVE ACTION ON MATERIALS (Metals, Plastic, Rubber, Etc.)	
PROTECTIVE EQUIPMENT	VENTILATION REQUIREMENTS
Eyes Dust - goggles Gloves Other	As required to keep airborne concentrations of copper dust below TLV.

SECTION III - HAZARDOUS INGREDIENTS

BASIC MATERIAL	APPROX. %	OSHA PEL	LD 50	LC 50	SIGNIFICANT EFFECTS
Copper		Dust 1 mg/m ³ Fume 0.1 mg/m ³			Gastro-intestinal
Zinc		Fume 5 mg/m ³	LDLO 500 mg/kg (human)	TCLO 600 mg/m ³ (human)	Metal fume fever

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT METHOD Not Applicable	OSHA CLASSIFICATION	FLAMMABLE EXPLOSIVE LIMITS	LOWER	UPPER
EXTINGUISHING MEDIA Not Applicable				
SPECIAL FIRE HAZARD & FIRE FIGHTING PROCEDURES Not Applicable				

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE None established.	
SYMPTOMS OF OVER EXPOSURE Dust and fume - sneezing, congestion, metallic taste, nausea, chills, fever	
EMERGENCY FIRST-AID PROCEDURES	
SKIN	Flush thoroughly with water.
EYES	Flush with water for 15 minutes, call a physician.
INGESTION	Drink water, induce vomiting by sticking finger down throat, call a physician.
INHALATION	Remove victim to fresh air, call a physician.

Chemical Alloy 262

CAS No.

TRW-02781

0908-4168

Alloy 262
CHEMICAL NAME _____

SECTION VI - TOXICOLOGY (Product)

ACUTE ORAL LD 50	CARCINOGENIC Not known to be carcinogenic
ACUTE ORAL TD _{LO} Copper 120 mg/kg human	MUTAGENIC Not known to be mutagenic
ACUTE DERMAL LD 50	EYE IRRITATION Dust is irritating
ACUTE INHALATION LC 50	PRIMARY SKIN IRRITATION Dust is irritant
PRINCIPAL ROUTES OF ABSORPTION Inhalation of dust or fume	
EFFECTS OF ACUTE EXPOSURE Congestion, gastro-intestinal distress, chills, fever, dermatitis	
EFFECTS OF CHRONIC EXPOSURE May cause liver, kidney or spleen damage, anemia, dermatitis	

SECTION VII - SPILL OR LEAKAGE PROCEDURES (Control Procedures)

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Dust or Fume - Wear NIOSH/MSHA approved dust and fume respirator. Follow OSHA regulations for respirator use. (See 29 CFR 1910.134). Shovel or sweep up and place in an approved DOT container and seal. Wash all contaminated clothing before reuse.
WASTE DISPOSAL METHOD Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate federal, state and local regulatory agencies to ascertain proper disposal procedures.

SECTION VIII - REACTIVITY DATA

STABLE X UNSTABLE AT _____ °C _____ °F	HAZARDOUS POLYMERIZATION	MAY OCCUR
		WILL NOT OCCUR Y
CONDITIONS TO AVOID		
INCOMPATIBILITY (Materials To Avoid) (dust and fume) acetylene, chlorine		
HAZARDOUS DECOMPOSITION PRODUCTS copper fume, zinc oxide fume		

SECTION IX - PHYSICAL DATA

MELTING POINT 1680°F	VAPOR PRESSURE	VOLATILES
BOILING POINT	SOLUBILITY IN WATER Insol	EVAPORATION RATE
SPECIFIC GRAVITY (H ₂ O = 1)	DN	VAPOR DENSITY (Air = 1)
DENSITY .308		

INFORMATION FURNISHED BY:

A. L. Gaudreau
(203) 789-5434

DATE

September 4, 1984

Department of Environmental Hygiene and Toxicology



CORPORATION

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EMERGENCY PHONE (203) 356-2345

0908-4169

1RW-02782

Man-GILL CHEMICAL COMPANY

23000 ST. CLAIR AVE. • CLEVELAND, OHIO 44117 • 216 - 486-5300 • CHEMTREC 800 - 424-9300



MATERIAL SAFETY DATA SHEET

Section I				07861
Identity YELLOW OXIDE		Date Prepared 02/21/86	Date Revised 12/09/85	
		NFPA CODE HEALTH 2	FLAMMABILITY 1	REACTIVITY 1
Section II — Hazardous Ingredients				
Hazardous Ingredients	CAS #	Health Hazards	ACGIH TLV - TWA	
PROPYLENE GLYCOL	107-98-2		360 MG/CUM	
NO COMPONENT WAS FOUND TO BE CARCINOGENIC IN NTP, IARC OR OSHA 1910(Z)				
Section III — Physical/Chemical Characteristics				
Boiling Point 369 DEG F		Specific Gravity (H ₂ O = 1) 1.48		
Vapor Pressure (mm Hg) NOT DETERMINED		Percent Volatile By Volume (%) 58		
Vapor Density (AIR = Reference) HEAVIER		Evaporation Rate (Ether = Reference) SLOWER		
Water Soluble NO				
Appearance and Odor YELLOW LIQUID, MILD ODOR				
Section IV — Fire and Explosion Hazard Data				
Flash Point (Method Used) 214 DEG F TCC		Flammable Limits LOWEST VALUE		LEL 2.6
Extinguishing Media CARBON DIOXIDE. DRY CHEMICAL.				
Special Fire Fighting Procedures CONTAINER.		IF EXPOSED TO HEAT, PRESSURE WILL BUILD UP IN		
Unusual Fire and Explosion Hazards FIRES. STATIC ELECTRICITY COULD CAUSE IGNITION.		A STRAIGHT WATER STREAM WOULD SPREAD		

MAN-GILL CHEMICAL COMPANY

MATERIAL SAFETY DATA SHEET

YELLOW OXIDE

07861

Section V — Reactivity Data

STABILITY	Unstable Stable *	Conditions to Avoid AVOID PROLONGED STORAGE AT ELEVATED TEMPERATURES.
INCOMPATIBILITY (Materials to Avoid) NONE KNOWN		
Hazardous Decomposition Products OXIDES OF CARBON		
HAZARDOUS POLYMERIZATION	May Occur Will Not Occur *	Conditions to Avoid NONE

Section VI — Health Hazard Data

Effects of Overexposure	MILD SKIN IRRITANT. HARMFUL IF SWALLOWED. IRRITATING TO THE EYES. INHALATION MAY CAUSE HEADACHE, NAUSEA, AND DIZZINESS.
Emergency and First Aid Procedures	
Eye (Contact):	FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR 15 MINUTES AND CONTACT PHYSICIAN IMMEDIATELY.
Skin (Contact):	WASH WITH SOAP AND WATER. CONTACT PHYSICIAN IF IRRITATION PERSISTS.
Ingestion (Swallowing):	DRINK LARGE QUANTITIES OF MILK OR WATER. CONSULT PHYSICIAN IMMEDIATELY.
Inhalation (Breathing):	REMOVE TO FRESH AIR.

Section VII — Precautions for Safe Handling & Use

Steps to be taken in Case Material is Released or Spilled	CONTAIN SPILL. ABSORB AND DISPOSE WASTE.
Waste Disposal Method:	DISPOSE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
Precautions To be Taken in Handling and Storage	DO NOT STORE OR USE NEAR HEAT, SPARKS, OR FLAME. DO NOT STORE NEAR COMBUSTIBLE MATERIAL. DO NOT STORE IN DIRECT SUNLIGHT. WHEN SANDING DRY FILM, USE NIOSH APPROVED DUST MASK. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE.
Other Precautions:	SHOWERS AND EYE WASH FOUNTAINS SHOULD BE MADE AVAILABLE WHERE CHEMICALS ARE USED.

Section VIII — Control Measures

Respiratory Protection (Specify Type)	USE NIOSH APPROVED EQUIPMENT WHEN AIRBORNE EXPOSURE LIMITS ARE EXCEEDED.	
Ventilation	Local Mechanical	RECOMMENDED TO MAINTAIN BELOW TLV
Protective Gloves	NEOPRENE RUBBER	Eye Protection SPLASH GOGGLES OR FACE SHIELD
Other Protective Clothing or Equipment	PROTECTIVE CLOTHING SUFFICIENT TO PREVENT SKIN CONTACT.	
Work/Hygienic Practices	WASH THOROUGHLY BEFORE EATING, SMOKING OR USING TOILET FACILITIES.	

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